Black and Decker Industrial Tool Co., 701 East Joppa Road, Baltimore, MD 21286

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Instruction Manual 2821 2822 Adjustable Clutch Driver/Drill

Getting the most out of your tool.

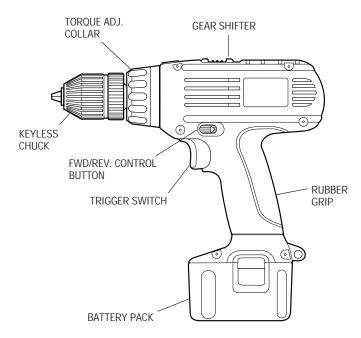
Please take time to read this manual and pay particular attention to the safety rules we've provided for your protection. If you have any questions about your tool please call:

1-800-9-BD TOOL (1-800-923-8665)

Ergonomics that make a difference

Your driver/drill has been designed with concern for work conditions which have quite an effect on the operator. The innovative design of this tool allows for comfort in handling, neutral wrist positions, balanced weight, excellent gripping, and low trigger pressure.

Cat #	Voltage	Grip Style	Chuck Capacity	Battery Pack	RPM	
2821	9.6V	Mid. Standard	3/8"	Standard	0-350/0-1000	
2822	12.0V	Mid. Standard	3/8"	Standard	0-400/0-1200	



△ GENERAL SAFETY RULES – FOR ALL BATTERY OPERATED TOOLS

WARNING! Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

WORK AREA

- Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep bystanders, children, and visitors away while operating a power tool.
 Distractions can cause you to lose control.

ELECTRICAL SAFETY

- Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.
- Use battery operated tool only with the specifically designed battery pack.
 Use of any other batteries may create a risk of fire.

PERSONAL SAFETY

 Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating

- power tools may result in serious personal injury,
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair.
 Keep your hair, clothing, and gloves away from moving parts. Loose clothing, jewelry, or long hair can be caught in moving parts. Air vents often cover moving parts and should also be avoided.
- Avoid accidental starting. Be sure switch is in the locked or off position before inserting battery pack. Carrying tools with your finger on the switch or inserting the battery pack into a tool with the switch on invites accidents.
- Remove adjusting keys or switches before turning the tool on. A wrench or key that is left attached to a rotating part of the tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

- Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to a loss of control.
- Do not force tool. Use the correct tool for your application. The correct tool
 will do the job better and safer and the rate for which it is designed.
- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect battery pack from tool or place the switch in the locked or off
 position before making any adjustments, changing accessories, or storing
 the tool. Such preventative safety measures reduce the risk of starting the
 tool accidentally.
- Store idle tools out of reach of children and other untrained persons. Tools
 are dangerous in the hands of untrained users.
- When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects

that can make a connection from one terminal to another. Shorting the battery terminals together may cause sparks, burns, or a fire.

- Maintain tools with care. Keep cutting tools sharp and clean. Properly
 maintained tools, with sharp cutting edges are less likely to bind and are
 easier to control.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SFRVICE

- Tool service must be performed only by qualified repair personnel. Service
 or maintenance performed by unqualified personnel could result in a risk of
 injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

⚠ ADDITIONAL SAFETY RULES

Hold tool by insulated gripping surfaces when performing an operation
where the cutting tool may contact hidden wiring or its own cord. Contact
with a "live" wire will make exposed metal parts of the tool "live" and shock
the operator.

⚠CAUTION: Some tools with large battery packs will stand upright on the battery pack but may be easily knocked over. When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard.

△WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- · crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber (CCA).

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

- Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals
- · The label on your tool may include the following symbols.

V volts

✓ alternating currentdirect current

.../min revolutions or reciprocation per minute

A ADDITIONAL SAFETY RULES FOR BATTERY CHARGERS

This manual contains important safety and operating instructions.

- Before using charger, read all instructions and cautionary markings on (1) charger, (2) battery pack, and (3) product using battery pack.
- DANGER: Do not probe with conductive objects. 120 volts present at charging terminals. Danger of electric shock or electrocution.
- DANGER: If battery pack case is cracked or damaged, do not insert into charger. Danger of electric shock or electrocution.
- The charger and battery pack are specifically designed to work together. DO NOT attempt to charge the battery pack with any chargers other than the ones in this manual.

- · Do not expose charger to rain or snow.
- These chargers are not intended for any uses other than charging B&D rechargeable batteries. Any other uses may result in risk of fire, electric shock or electrocution.
- To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in risk of fire, electric shock, or electrocution.
- An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size.

Recommended Minimum AWG Size for Extension Cords

Total Extension Cord Length (feet)									
25	50	75	100	125	150	175			
Wire	Wire Gauge								
18	18	16	16	14	14	12			

- The charger is ventilated through slots in the top and the bottom of the housing. Do not place any object on top of charger or place the charger on a soft surface that might block the ventilation slots and result in excessive internal heat. Place the charger in a position away from any heat source.
- Do not operate charger with damaged cord or plug have them replaced immediately.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to an authorized service center.
- Do not disassemble charger; take it to an authorized service center when service or repair is required. Incorrect reassembly may result in a risk of electric shock, electrocution or fire.

- To reduce risk of electric shock, unplug charger from outlet before attempting any cleaning. Removing the battery pack will not reduce this risk.
- NEVER attempt to connect 2 chargers together.
- DO NOT store or use the tool and battery pack in locations where the temperature may reach or exceed 105°F (such as outside sheds or metal buildings in summer).
- The charger is designed to operate on standard household electrical power (120 Volts). Do not attempt to use it on any other voltage!

△ ADDITIONAL SAFETY RULES FOR BATTERY PACKS

The battery pack is not fully charged out of the carton! First read the safety instructions below. Then follow charging notes and procedures.

READ ALL INSTRUCTIONS

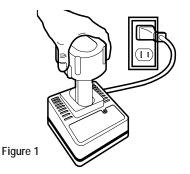
- Do not incinerate the battery pack even if it is severely damaged or is completely worn out. The battery pack can explode in a fire.
- A small leakage of liquid from the battery pack cells may occur under extreme usage or temperature conditions. This does not indicate a failure. However, if the outer seal is broken and this leakage gets on your skin:
 - a. Wash quickly with soap and water.
 - b. Neutralize with a mild acid such as lemon juice or vinegar.
 - c. If battery liquid gets into your eyes, flush them with clean water for a minimum of 10 minutes and seek immediate medical attention. (MEDICAL NOTE: The liquid is 25-35% solution of potassium hydroxide.)
- Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, immediately discontinue use and do not recharge.
- Do not carry extra battery packs in aprons, pockets, or tool boxes along with other metal objects. Battery pack could be short circuited causing damage to the battery pack and possibly causing severe burns or fire.

- Charge the battery packs only in B&D chargers.
- NOTE: Review and observe all of the "Important Charging Notes" in the charger instruction section of this manual.
- NOTE: The batteries in your battery pack are the nickel-cadmium type.
 Cadmium is considered to be a toxic material by the Environmental Protection Agency. Before disposing of damaged or worn out Nickel-Cadmium battery packs, check with your state Environmental Protection Agency to find out about special restrictions on the disposal of these battery packs or return them to a certified service center for recycling.
- NOTE: Battery storage and carrying caps are provided for use whenever the battery is out of the tool or charger. Remove cap before placing battery in charger or tool.

⚠ WARNING: Do not store or carry battery so that metal objects can contact exposed battery terminals. For example, do not place battery in aprons, pockets, tool boxes, product kit boxes, drawers, etc. with loose nails, screws, keys, etc. without battery cap. Without cap in place, battery could short circuit causing fire or burns or damage to battery.

Battery Packs

Your tool uses a 9.6 Volt or a 12.0 Volt battery pack. When ordering



replacement battery packs, be sure to include catalog number and voltage: (9.6 Volt-97148, 97048) (12.0 Volt-97150, 97051).

Chargers 97014, 97015

Your battery can be charged in the **97014** (1 Hour Charger) or the **97015** Charger. Be sure to read all safety instructions before using your charger.

Charging Procedure

These chargers require no adjustment and are designed to be as easy as possible to operate. Simply place your battery pack into the receptacle of a plugged in charger (FIG.1) and it will automatically charge the pack.

97014 (1 HOUR CHARGER)

- 1. Plug the charger into an appropriate AC power outlet.
- 2. Insert the battery pack into the charger, as shown in FIG.1, making sure the pack is fully seated in the charger. The red (charging) light will blink continuously indicating that the charging process has started.
- The battery pack will be fully charged in about 1 hour. The completion of charge will be indicated by the red light remaining ON continuously. The pack is fully charged and may be used at this time or left in the charger.

97015

- 1. Plug the charger into an appropriate AC power outlet.
- Insert the battery pack into the charger, as shown in FIG. 1, making sure the pack is fully seated in the charger. The red (charging) light will blink continuously indicating that the charging process has started.
- 3. The completion of charge will be indicated by the red light remaining ON continuously. The pack is fully charged and may be used at this time or left in the charger.

Leaving the battery pack in the charger: When the red light remains ON,

the charger has switched to its "equalize charge" mode which lasts approximately 4 hours, after which the charger will switch to "maintenance charge" mode. The battery pack can be removed at any time during these charge cycles, but will only be fully charged if the red light is continuously ON. The charger and battery pack can be left connected with the red light glowing indefinitely. The charger will keep the battery pack fresh and fully charged. A battery pack will slowly lose its charge when kept out of the charger. If the battery pack has not been kept on maintenance charge, it may need to be recharged before use. A battery pack may also slowly lose its charge if left in a charger that is not plugged into an appropriate AC source.

Trouble Indicators: These chargers are designed to detect certain problems that can arise with battery packs which would be indicated by the red light flashing at a fast rate (and continuous beeping for 97014). If this occurs, reinsert battery pack. If problem persists, try a different battery pack to determine if the charger is OK. If the new pack charges correctly, then the original pack is defective and should be returned to a service center for recycling. If the new battery pack elicits the same trouble indication as the original, have charger tested at an authorized service center.

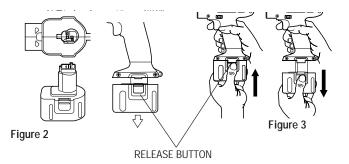
PROBLEM POWER LINE (97015)

When these chargers are used with some portable power sources such as generators or sources that convert DC to AC, the chargers may temporarily suspend operation, flashing the red light with two fast blinks followed by a pause. This indicates the power source is out of limits.

Important Charging Notes

 Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 65°F and 75°F (18°-

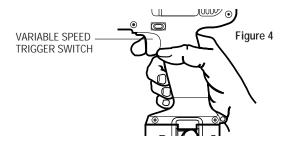
- 24°C). DO NOT charge the battery pack in an air temperature below $+40^{\circ}\text{F}(+4.5^{\circ}\text{C}),$ or above $+105^{\circ}\text{F}$ (+40.5°C). This is important and will prevent serious damage to the battery pack.
- 2. The charger and battery pack may become warm to touch while charging. This is a normal condition, and does not indicate a problem.
- 3. If the battery pack does not charge properly (1) Check current at receptacle by plugging in a lamp or other appliance, (2) Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights. (3) Move charger and battery pack to a location where the surrounding air temperature is approximately 65°F 75°F (18°- 24°C). (4) If charging problems persist, take or send the tool, battery pack and charger to your local service center.
- 4. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse affect on the battery pack.



- 5. Under certain conditions, with the charger plugged in to the power supply, the exposed charging contacts inside the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.
- 6. Do not freeze or immerse charger in water or any other liquid.
- WARNING: Don't allow any liquid to get inside charger. Electric shock
 may result. To facilitate the cooling of the battery pack after use, avoid
 placing the charger or battery pack in a warm environment such as in a
 metal shed, or an uninsulated trailer.
- CAUTION: Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, return to a service center for recycling.

Important!

This product is not user serviceable. There are no user serviceable parts inside the charger. Servicing at an authorized service center is required to avoid damage to static sensitive internal components.



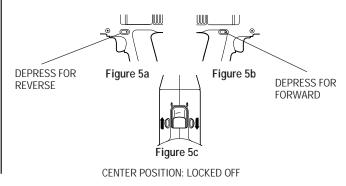
READ ALL OF THE INSTRUCTIONS IN THE BATTERY CHARGER SECTION OF THIS MANUAL BEFORE ATTEMPTING TO CHARGE THE battery pack FOR YOUR TOOL.

Removing and Installing the Battery Pack

NOTE: YOUR BATTERY PACK WILL NOT BE FULLY CHARGED OUT OF THE CARTON.

To install the battery pack into the tool handle, align the base of the tool with the notch inside the tool's handle and slide the battery pack firmly into the handle until you hear the lock snap into place as shown in Figures 2 and 3.

To remove the battery pack from the tool, press the release buttons, as shown in Figure 3, and firmly pull the battery pack out of the tool handle. Insert it into the charger as described in the charger section of this instruction manual.

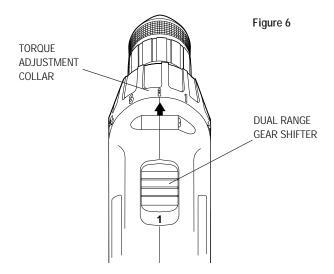


4

To turn the tool "ON," squeeze the trigger switch. To turn the tool "OFF," release the trigger switch (Figure 4). Your driver/drill is equipped with a brake. The chuck will stop as soon as the trigger switch is fully released.

Your driver/drill is equipped with a variable speed switch which enables you to select the best speed for a particular application. The farther you squeeze the trigger, the faster the tool will operate.

Use lower speeds for starting holes without a centerpunch, drilling in metals or plastics, driving screws and drilling ceramics, or in any application requiring high torque. Higher speeds are better for drilling in wood, wood compositions and for using abrasive and polishing accessories. For maximum tool life, use variable speed only for starting holes or fasteners.



NOTE: Continuous use in variable speed range is not recommended. It may damage the switch and should be avoided.

Forward/Reverse Control Button

A forward/reverse control button determines the direction of the tool and also serves as a "lock off" button. To select forward rotation, release the trigger switch and depress the forward/reverse control button on the right side of the tool, as shown in Figure 5a.

To select reverse, depress the forward/reverse control button on the left side of the tool as shown in Figure 5b. The center position of the control button locks the tool in the "OFF" position as shown in Figure 5c.

When changing the position of the forward/reverse control button, be sure the trigger is released.

NOTE: The first time the tool is run after changing the direction of rotation, you may hear a click on start up. This is normal and does not indicate a problem.

Torque Adjustment Collar

Your driver/drill has an adjustable torque screwdriver mechanism for driving and removing a wide array of fastener shapes and sizes.

Circling the collar are numbers ranging from 0 to 5, and a drill bit symbol. These numbers (and half numbers designated by dots on the collar) are used to set the clutch to deliver a torque range.

The higher the number on the collar, the higher the torque and the larger the fastener which can be driven. To select any of the numbers, rotate until the desired number aligns with the selector, shown in Figure 6.

Dual Range Gearing

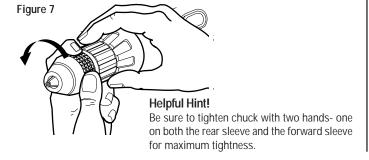
The dual range feature of your driver/drill allows you to shift gears for greater versatility.

To select the low speed, high torque setting, turn the tool off and permit the unit to stop. Slide the gear shifter forward (towards the chuck - position 1), as shown in Figure 6.

To select the high speed, low torque setting, turn the tool off and permit the unit to stop. Slide the gear shifter back (away from chuck - position 2).

NOTE: Do not change gears when the tool is running.

Refer to the chart below to determine the available speeds of your model of driver/drill.



Troubleshooting Tip!

If you are having trouble changing gears, make sure that the dual range gear shifter is either completely pushed forward or completely pushed back.

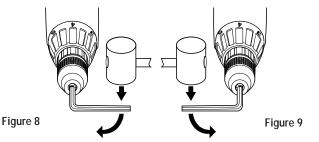
Keyless Chuck

Your tool features a keyless chuck for greater convenience. To insert a drill bit or other accessory, follow the steps listed below.

- 1. Lock the trigger switch in the OFF position as shown in Figure 5c.
- Grasp the rear half of the chuck with one hand and use your other hand to rotate the front half counterclockwise, as shown in Figure 7. Rotate far enough so that the chuck opens sufficiently to accept the desired accessory.
- Insert the bit or other accessory about 3/4" into the chuck and tighten securely by holding the rear half of the chuck and rotating the front portion in the clockwise direction.

To release the accessory, repeat step 2 listed above.

WARNING: Do not attempt to tighten drill bits (or any other accessory) by gripping the front part of the chuck and turning the tool on. Damage to the



chuck and personal injury may result. Always lock off trigger switch when changing accessories.

Chuck Removal

Always wear eye protection.

Lock off the tool and turn the adjustment collar to the "drill" position and low speed gear shifter to position 1. Tighten the chuck around the shorter end of a hex key (not supplied) of 1/4" or greater size. Using a wooden mallet or similar object, strike the longer end in the clockwise direction, as shown in Figure 8. This will loosen the screw inside the chuck.

Open chuck jaws fully, insert screwdriver (or Torx tool if required) into front of chuck between jaws to engage screw head. Remove screw by turning clockwise (left-hand-thread). Place hex key in chuck and tighten, as shown in Figure 9. Using a wooden mallet or similar object, strike key sharply in the counter clockwise direction. This will loosen the chuck so that it can be unscrewed by hand.

Chuck Installation

Lock off the tool. Screw the chuck on by hand as far as it will go. Tighten the chuck around the shorter end of a 1/4" or larger hex key (not supplied) strike the longer end in the clockwise direction with a wooden mallet, as shown in Figure 8. Insert and tighten the screw by turning in a counter clockwise direction.

Operation as a Drill

Turn the collar to the drill bit symbol. Install and tighten the desired drill bit in the chuck. Select the desired speed/torque range using the dual range gear shifter to match the speed and torque to the planned operation.

Follow these instructions for best results when drilling.

Drilling

- Use sharp drill bits only. For WOOD, use twist drill bits, spade bits, power auger bits, or hole saws. For METAL, use high speed steel twist drill bits or hole saws. For MASONRY, such as brick, cement, cinder block, etc., use carbide-tipped bits.
- Be sure the material to be drilled is anchored or clamped firmly. If drilling thin material, use a "back-up" block to prevent damage to the material.
- Always apply pressure in a straight line with the bit. Use enough pressure to keep the drill bit biting, but do not push hard enough to stall the motor or deflect the bit.
- 4. Hold tool firmly to control the twisting action of the drill.
- IF DRILL STALLS, it is usually because it is being overloaded. RELEASE TRIGGER IMMEDIATELY, remove drill bit from work, and determine cause of stalling. DO NOT CLICK TRIGGER OFF AND ON IN AN ATTEMPT TO START A STALLED DRILL – THIS CAN DAMAGE THE DRILL.
- 6. To minimize stalling on breaking through the material, reduce pressure on drill and ease the bit through the last fractional part of the hole.
- Keep the motor running when pulling the bit back out of a drilled hole. This will help prevent jamming.
- 8. With variable speed drills there is no need to center punch the point to be drilled. Use a slow speed to start the hole and accelerate by squeezing the trigger harder when the hole is deep enough to drill without the bit skipping out. Operate at full on after starting the bit.

Drilling in Wood

Holes in wood can be made with the same twist drills used for metal. These bits may overheat unless pulled out frequently to clear chips from the flutes. For larger holes, use low speed wood bits. Work that is likely to splinter should be backed up with a block of wood.

Drilling in Metals

Use a cutting lubricant when drilling metals. The exceptions are cast iron and brass which should be drilled dry. The cutting lubricants that work best are sulphurized cutting oil or lard oil; bacon grease will also serve the purpose.

Drilling in Masonry

Use carbide tipped masonry bits at low speeds. Keep even force on the drill but not so much that you crack the brittle materials. A smooth, even flow of dust indicates the proper drilling rate.

Operation as a Screwdriver

Select the desired speed/torque range using the dual range gear shift lever on the top of tool to match the speed and torque to the planned operation.

Insert the desired fastener accessory into the chuck as you would any drill bit. Set the torque adjustment collar (Figure 6). Make a few practice runs in scrap or unseen areas to determine the proper position of the clutch collar.

MAINTENANCE

CLEANING: With the motor running, blow dirt and dust out of all air vents with dry air at least once a week. Wear safety glasses when performing this. Exterior plastic parts may be cleaned with a damp cloth and mild detergent. Although these parts are highly solvent resistant, NEVER use solvents.

Charger Cleaning Instructions:

WARNING: Disconnect the charger from the AC outlet before cleaning. Dirt

and grease may be removed from the exterior of the charger using a cloth or soft non-metallic brush. Do not use water or any cleaning solutions.

Accessories

Recommended accessories for use with your tool are available at extra cost from your distributor or local service center. A complete listing of service centers is included with your tool.

CAUTION: The use of any non-recommended accessory may be hazardous.

If you need any assistance in locating any accessory call 1-800-9-BD TOOL (1-800-923-8665) or contact Black & Decker (U.S.) Inc., Consumer Services Department, P.O. Box 618, 626 Hanover Pike, Hampstead, MD 21074.

IMPORTANT!

To assure product safety and reliability, particularly for Double Insulated tools, repairs, maintenance and adjustment (excluding maintenance described in this manual) should be performed by B&D service centers or authorized service centers, using identical B&D replacement parts.

Every B&D tool is of the highest quality.

If you wish to contact us regarding this product, please call toll free between 8:00am and 8:00pm ET, seven days a week:

1-800-9-BD TOOL

(1-800-923-8665)

One Year Service/Safety Check

All B&D tools for Industry and Construction are covered under a service/safety check program where B&D will inspect your tool for safety and provide necessary maintenance or repairs, including normal wear and tear parts, for one year, free of charge.

Full Warranty

All B&D tools for Industry and Construction are warranted to be free of any defects in materials or workmanship. Upon thorough examination of tool, B&D will repair or replace, at our option, any product that is determined to be defective.

Conditions

The service/safety check and the warranty do not apply to: repairs made or attempted by anyone other than an authorized B&D service location; misuse, abuse, neglect, improper application of the tool; missing parts; or normal wear and tear (after first year of ownership). Please return the complete unit, transportation prepaid, to any B&D factory owned or B&D authorized service center location (list provided with tool or see Yellow Pages under "Tools Electric").